

# Welcome

## International EESS Wideband Downlink Workshop

March 25 – 27, 2003

Orlando, Florida

Hosted by: NASA Spectrum Management Office  
NASA Office of Earth Science

# Introduction

**This international workshop is designed to bring together operators of satellites, and the ground stations supporting those satellites,**

to assess the state of the 8025-8400 MHz band (X-band),

to anticipate the future environment in the band, and

to determine what, if any, steps need to be taken to alleviate congestion in the band.

# History



**This is not the first X-band Workshop sponsored by NASA and its colleagues.**

**Others include:**

- **July 25-27, 1994 at the Goddard Space Flight Center, Greenbelt, MD**
- **June 21-22, 1995 at Vandenberg Air Force Base, California**

**Both were convened to address critical spectrum management issues concerning the use of 8025-8400 MHz and adjacent bands.**

# History

The purposes of those workshops included:

- Review planned use of the band by operators or Earth exploration Satellites
- Examine the compatibility and potential interference environment due to interaction among these satellites.
- Explore requirements for coordinating receiving stations with transmitting stations in other services.
- Address/resolve problems caused by out-of-band emissions (especially regarding the Deep Space Network).
- Review SFCG recommendation addressing effective use of the band.

# Goals

**To assess of the condition of X-band**

- how usable is it?

**To anticipate the future condition of the band**

- are we heading into trouble?

**To determine what steps, if any, need to be taken to ensure the future (5-10 year) usability of X-band - steps taken**

- either as a group, or
- as builders of individual missions.

**To set a framework for continuing these assessments at appropriate intervals in the future.**

# Materials



**Paper copies of the presentations will be available during the meeting.**

**NOTE: Recognizing that last minute changes occur, presenters are asked to provide updated soft copies to Tom vonDeak as soon as possible after the meeting.**

# Agenda



**This meeting is planned for 2 ½ days.**

**Starting time is 8:30 AM (9:00 AM on Thursday) with coffee, etc. available 1 hour earlier.**

**Mid-morning and mid-afternoon breaks are scheduled.**

**Lunch breaks are scheduled for longer than 1 hour; please return at 1:30 PM.**

**There will be a reception/social hour this evening (Tuesday), but nothing is scheduled for tomorrow evening.**

# Agenda

## **Tuesday Morning:**

**Overview of the band from an international perspective**

**Coordination issues and considerations**

## **Tuesday Afternoon:**

**Government and commercial missions using the band**

## **Wednesday Morning:**

**Ground system descriptions and viewpoints**

**Other operations in the band**

## **Wednesday Afternoon:**

**Assessment of band usage and technological help**

## **Thursday Morning:**

**More technological help**

**Discussions – future workshops, open mike**



# Agenda

This meeting is not intended to be a “dog and pony show.”

Time is scheduled for discussions by/among the participants.

Questions are encouraged - everyone needs to understand what the common problems are.

We are not trying to pry business plans or proprietary information from participants; rather, we all need to understand the X-band environment we will have to live in.

It has been almost 8 years since the last such workshop – what is a reasonable time interval between future workshops?

# Goals



To provide an up-to-date assessment of the condition of X-band.

To anticipate the future condition of the band.

To determine what steps, if any, need to be taken to ensure the future (5-10 year) usability of X-band.

To set a framework for continuing these assessments at appropriate intervals in the future.